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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,638	07/31/2006	Manfred Rahm	05-664	5482
34704 7590 08/18/2009 BACHMAN & LAPOINTE, P.C.			EXAMINER	
900 CHAPEL STREET			HEINRICH, SAMUEL M	
SUITE 1201 NEW HAVEN	J. CT 06510		ART UNIT	PAPER NUMBER
	,		3742	
			MAIL DATE	DELIVERY MODE
			05/18/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/551,638 RAHM, MANFRED Examiner Art Unit 3742 The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

	Samuel M. Heinrich	3742					
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING I Extension of time may be available under the provision of 37 CFR after SIX (9) MCNITIS from the mailing date of this communication. If NO period for reply is specified above, the miximum statutory period in the provision of the provisi	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be til ! will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this (D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 19	February 2009.						
3) Since this application is in condition for allow	ance except for formal matters, pr	osecution as to the	e merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 8-14 is/are pending in the applicatio	n.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>8-14</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9) The specification is objected to by the Examir	er.						
10) The drawing(s) filed on 30 September 2005 is	/are: a)⊠ accepted or b)⊟ obje	ted to by the Exa	miner.				
Applicant may not request that any objection to th	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is ob-	jected to. See 37 C	FR 1.121(d).				
11)☐ The oath or declaration is objected to by the B	xaminer. Note the attached Office	Action or form P	ГО-152.				
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreig a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).					
 Certified copies of the priority document 	its have been received.						
Certified copies of the priority document							
 Copies of the certified copies of the pri 	•	ed in this National	Stage				
application from the International Bure							
* See the attached detailed Office action for a lis	t of the certified copies not receive	ed.					
Attachment(s)							
1) M Notice of References Cited (RTO 902)	4) Interview Summer	(DTO 412)					

Attachment(s)		
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)	
Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/S5/08)	5). Notice of Informal Patent Application.	
Paper No(s)/Mail Date	6) Other:	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of USPN 4,896,408 to Fraser in view of USPN 6,410,165 to Warren et al.

AAPA describes (US20070034612A1, [0002]) the well known "crown wheel in the axle drive of a motor vehicle" and describe use of this workpiece to a shaft by bolts and by a welded connection. AAPA describes [0002] well known welded joints which are "not advisable where there are functional surfaces of high accuracy on account of the welding distortion."

Fraser describes (column 5, line 65 through column 6, line 14) "distortion imparted to the blade itself during the welding process is carefully measured so that any predetermined offset from the in use position which would be required to compensate for such movement may be accommodated by the locating means. All further tennon and blade parts can then be secured to their respective blades initially in an "offset" position so that they will finish up after the welding process has been carried out in as near a correct position as possible."

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Warren et al show (Figure 3) and describe (column 4, lines 21-31, and column 6, lines 37-57) a weld joint 20 which further secures shaft 16 which is press fit into hub 18.

The instant claimed method of securing a rotational symmetrical part to a hub would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the workpieces are well known in a weld connection and because distortion compensation using an offset location fit is well known in order to provide accurate connections.

The instant claimed workpiece, a crown wheel with a tip cone, is well known.

Claims 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of USPN 4,896,408 to Fraser in view of USPN 6,410,165 to Warren et al as applied to claim 8 above, and further in view of USPN 3.834.138 to Gibson.

Gibson describes (Figure 5) interference fit of parts having different radii provided between parts 24 and 26. The use of an interference fit of parts, at least on part having different radii along the axial direction, would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the assembly of parts in initiated more easily with one tapered workpiece. The instant claimed conical shape is merely a change in shape with respect to the tapered planar shape of Gibson.

The instant claimed different species of interference fits, comprising different radii or deformed encircling groove, would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art for accurate and simple part assembly.

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Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art (AAPA) in view of USPN 4,896,408 to Fraser in view of USPN 6,410,165 to Warren et al as applied to claim 8 above, and further in view of USPN 4,995,856 to Heindl et al.

Heindl et al describe (e.g., claim 24) well known encircling protrusion which provides interference fit and the use thereof would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art because the design is a cost efficient means for providing interference fit.

Response to Arguments

Applicant's arguments with respect to claims 8-14 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art pertains to distortion and interference fit.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tu B. Hoang can be reached on 571-272-4780. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Samuel M Heinrich/ Primary Examiner, Art Unit 3742